SECOR INTERNATIONAL INCORPORATED www.secor.com 3017 Kilgore Road, Suite 100 Rancho Cordova, CA 95670 916-861-0400 TEL 916-861-0430 FAX

May 15, 2006

Mr. John Jang Regional Water Quality Control Board - San Francisco Bay Region 1515 Clay Street, Suite 1400 Oakland, CA 94612

RE: Well Destruction Report

Former ARCO Service Station No. 2135 440 3rd Street San Rafael, California SECOR Project No.: 77BP.02135.06.0636

Dear Mr. Jang:

SECOR International Inc. (SECOR) on behalf of Atlantic Richfield Company (ARC), a BP affiliated company, is submitting this report to document the destruction of nine offsite monitoring wells at former ARCO Service Station No. 2135 located at 440 3rd Street in San Rafael, California (Figures 1 and 2). The report has been prepared in response to a California Regional Water Quality Control Board (RWQCB) San Francisco Bay Region letter dated January 5, 2006, requesting that the site-related groundwater monitoring wells be destroyed as part of the final closure requirement (Attachment A).

WELL DESTRUCTION

Permitting/Utility Clearance – Prior to beginning field work, URS Corporation (URS) obtained well destruction permits from the Marin County Environmental Health Services Department (MCEHSD) (Attachment B). Prior to conducting subsurface work at the site, Underground Service Alert (USA) was contacted to delineate subsurface piping near the site with surface markings. In addition, a private utility locator service was contracted to clear each well location.

Health and Safety – A *Health and Safety Plan* was prepared for the scope of work as required by the Occupational Health and Safety Administration (OSHA) Standard "Hazardous Waste Operations and Emergency Response" guidelines (29 CFR 1910.120). The document was reviewed and signed by all applicable personnel and subcontractors performing work at the site.

Well Destruction – On March 16 and 17, 2006, URS oversaw the destruction of nine groundwater monitoring wells located near the subject site. The wells were destroyed by pressure grouting each well from total depth to the ground surface, then removing the well box and concrete apron. Wells MW-7 and MW-8 were pressure-grouted from 30 feet below ground surface (bgs) to grade and well MW-9 was pressure-grouted from 16 feet bgs to grade. MW-10 through MW-15 were pressure-grouted from 15 feet bgs to grade (Table 1).

After each well box and concrete apron was removed, each well was capped with either concrete or asphalt to match existing grade. The well boxes and concrete aprons were saved for future use and removed from the site and properly disposed. Copies of the field notes summarizing well destruction activities are provided in Attachment C.

Well Destruction Report ARCO Service Station No. 2135 May 15, 2006 Page 2

WASTE DISPOSAL

No soil cuttings were generated during well destruction. Debris generated during wellbox extraction was removed by the sub contractor.

CONCLUSIONS

On March 16 and 17, 2006, URS oversaw the destruction of nine offsite monitoring wells. Soil cuttings and debris generated from well destruction were disposed of offsite. Based on compliance with the RWQCB's closure requirements, and on behalf of ARC, SECOR requests formal closure of the site.

Sincerely,

SECOR International Incorporated

David Stolcenberg Staff Engineer

Brian Carey, PG Associate Geologist

Attachments: Figures

Tables

Attachment A – Regulatory Letters and Site Closure Summary

CAL

BRIAN P. CAREY

Attachment B - Applicable Permits

Attachment C - Field Notes and Well Completion Reports

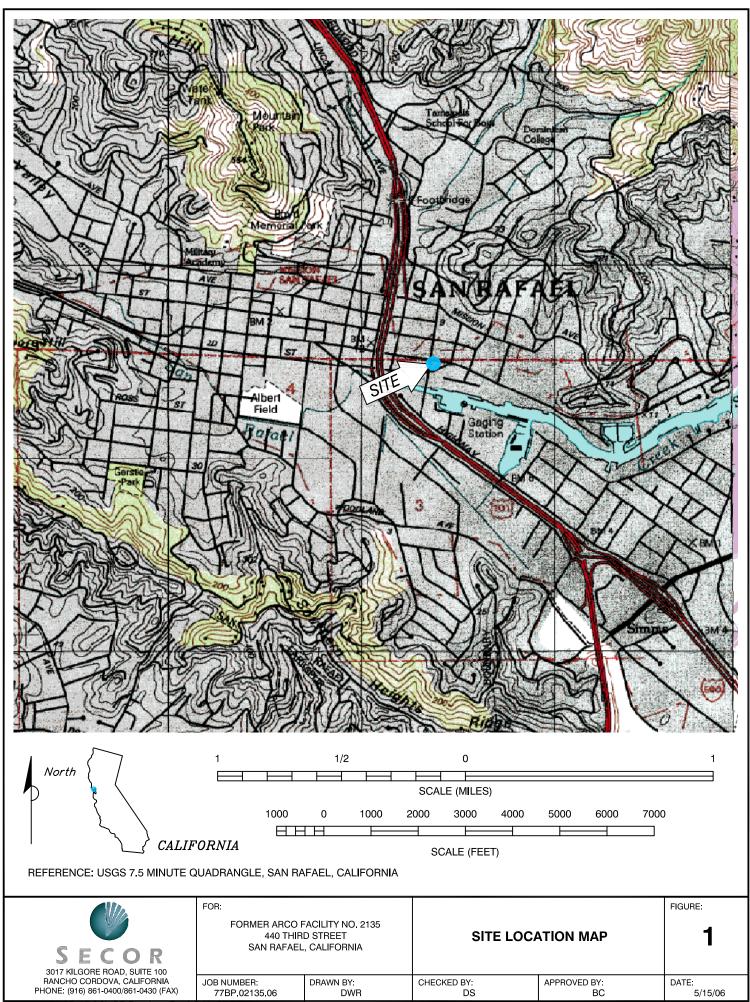
Attachment D - Well Completion Reports

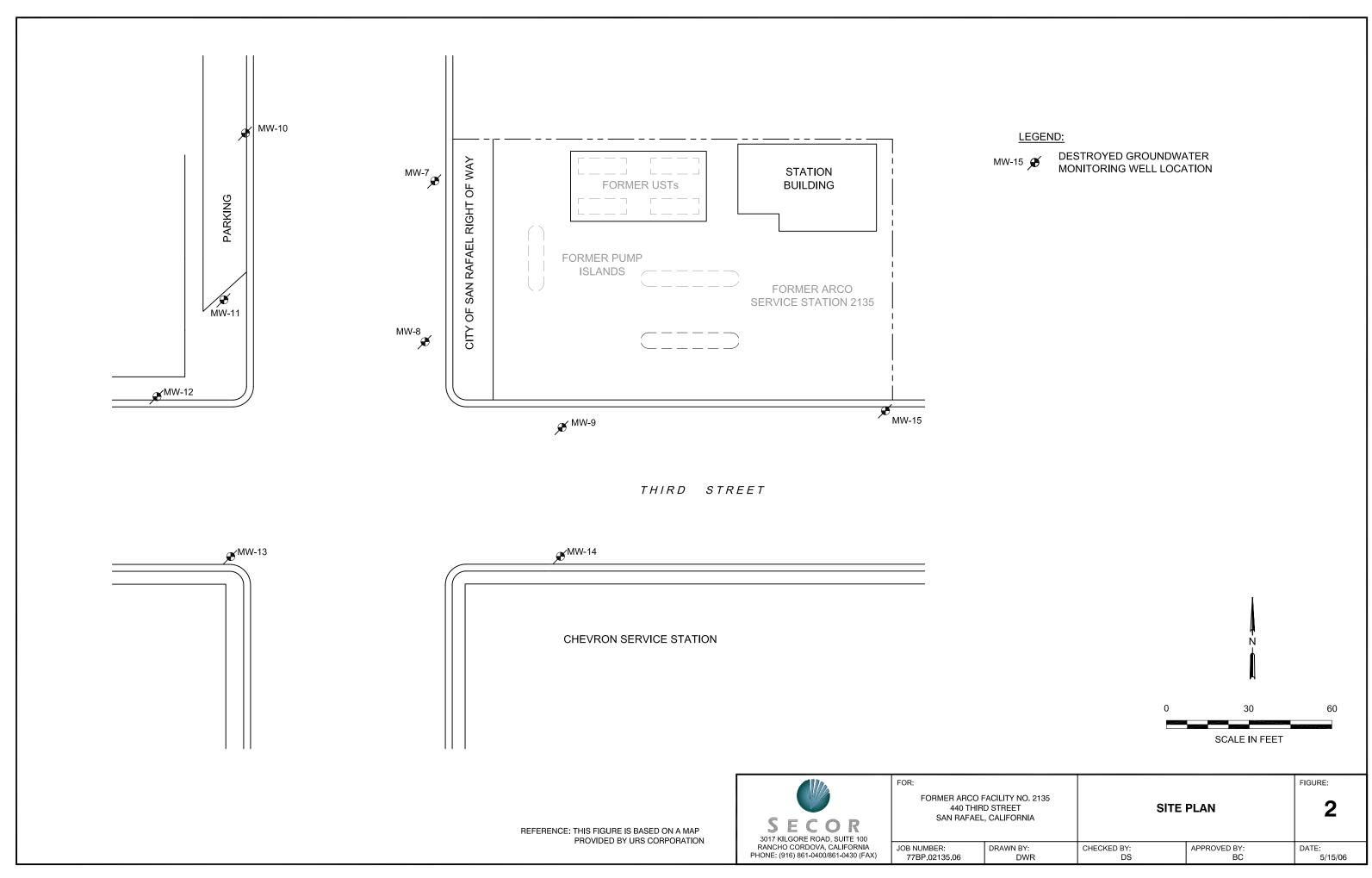
cc: Mr. Bradley Mark - San Rafael Fire Dept.

Mr. Charles Carmel, Atlantic Richfield Company (RM) (Upload to ENFOS)

Mr. Ali Salkhi, Property Owner

FIGURES





TABLE

Table 1 Soil Boring and Well Construction Details

Former ARCO Service Station No. 2135 440 3rd Street San Rafael, California

		Well		Scr	Screen		
Well	Drill	Depth	Diameter	Тор	Bottom	Length	Comments
I.D.	Date	(feet bgs)	(inches)	(feet bgs)	(feet bgs)	(feet)	
MW-7	-	19	-	-	-	-	Destroyed 03/17/06
MW-8	-	19	-	•	-	-	Destroyed 03/17/06
MW-9	-	16	-	•	-	-	Destroyed 03/16/06
MW-10	-	15	-	•	-	-	Destroyed 03/16/06
MW-11	-	15	-	•	-	-	Destroyed 03/16/06
MW-12	-	15	-	•	-	-	Destroyed 03/16/06
MW-13	-	15	-	•	-	-	Destroyed 03/17/06
MW-14	-	15	-	•	-	-	Destroyed 03/16/06
MW-15	-	15	-	-	-	-	Destroyed 03/16/06

Explanation

All wells are of PVC construction

bgs = Below ground surface

02135 WELL BORING SUM.xls Page 1 of 1

ATTACHMENT A REGULATORY LETTERS AND SITE CLOSURE SUMMARY

Well Destruction Report Former ARCO Service Station No. 2135 440 3rd Street San Rafael, CA

SECOR Project No.: 77BP.02135.06.0636



California Regional Water Quality Control Board

San Francisco Bay Region



1515 Clay Street, Suite 1400, Oakland, California 94612 (510) 622-2300 • Fax (510) 622-2460 http://www.waterboards.ca.gov/sanfranciscobay

La t 9 200s

Atlantic Richfield Co. (ARCO) Attn: Mr. Kyle Christie 6 Centerpointe Dr., Room 161 La Palma, CA 90623-1066 Date: JAN 0 5 2006

UST File Nos.: 21-0011 (JMJ)

2158.12

SUBJECT:

Transmittal of Case Closure Letter and Site Summary Form for Former ARCO

Station #2135, 440 Third Street, San Rafael, Marin County, UST Case No. 21-0011

Dear Mr. Kyle Christie:

Attached please find the uniform underground storage tank closure letter and the September 2, 2005, Case Closure Referral package from the San Rafael Fire Department (as modified by Water Board staff in December 2005/January 2006) for the subject site. Please note that if land use at the subject site changes from being an operating gasoline service station, closure needs to be re-evaluated. Please also note that future subsurface activities should be prepare for possibly encountering residual soil and/or groundwater pollution and that any encountered pollution must be managed in a proper manner.

Please direct all questions and correspondence regarding this matter to John Jang of my staff at (510) 622-2366 (email address jjang@waterboards.ca.gov).

Sincerely,

Bruce H. Wolfe

Executive Officer

Enclosures:

Closure Letter

September 2, 2005, Case Closure Referral package from the San Rafael Fire

Department

cc w/ enc.:

Shari Knieriem, SWRCB, UST Cleanup Fund Unit (email sknieriem@waterboards.ca.gov)
Sunil Ramdass, SWRCB, UST Cleanup Fund Unit (email sramdass@waterboards.ca.gov)
Allan Patton, SWRCB, UST Cleanup Fund Section (email apatton@waterboards.ca.gov)

Mr. Brad Mark (email <u>brad.mark@ci.san-rafael.ca.us</u>) San Rafael Fire Dept. 1039 "C" Street San Rafael, CA 94901

Mr. Greg Mobley (email <u>tunderwood@co.marin.ca.us</u>)
Marin County Office of Waste Management
P. O. Box 4186
San Rafael, CA 94913-4186

Armando Alegria (email <u>aalegria@co.marin.ca.us</u>) Marin County Health Dept. 3501 Civic Center Drive, Room 236 San Rafael, CA 94903



California Regional Water Quality Control Board

San Francisco Bay Region

1515 Clay Street, Suite 1400, Oakland, California 94612 (510) 622-2300 • Fax (510) 622-2460 http://www.waterboards.ca.gov/sanfranciscobay



Atlantic Richfield Co. (ARCO) Attn: Mr. Kyle Christie 6 Centerpointe Dr., Room 161 La Palma, CA 90623-1066 Date: JAN 0 5 2006

UST File Nos.: 21-0011 (JMJ)

2158.12

SUBJECT:

Underground Storage Tank (UST) Case Closure for Former ARCO Station #2135,

440 Third Street, San Rafael, Marin County, UST Case No. 21-0011

Dear Mr. Christie:

This letter confirms the completion of a site investigation and corrective action for the underground storage tank(s) formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank(s) are greatly appreciated.

Based on the information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground storage tank(s) site is in compliance with the requirements of subdivisions (a) and (b) of Section 25296.10 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.3 of the Health and Safety Code and that no further action related to the petroleum release(s) at the site is required.

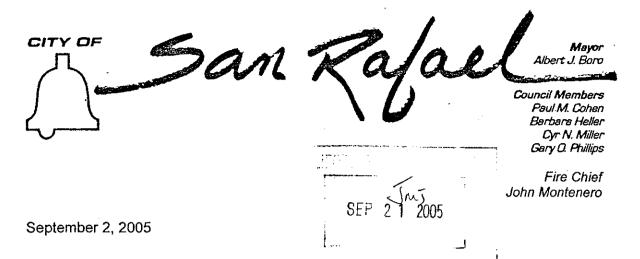
This notice is issued pursuant to subdivision (g) of Section 25296.10 of the Health and Safety Code.

Please contact our office if you have any questions regarding this matter.

Sincerely,

Bruce H. Wolfe

Executive Officer



and

Mr. John Jang, UST Program Manager California Water Quality Control Board San Francisco Bay Region 1515 Clay Street, Suite 1400 Oakland, California 94612

RE: Case Closure Referral

> Site Clean-up Certification Recommendation Former ARCO Service Station No. 2135

440 Third Street

San Rafael, California

Dear Mr. Jang:

The following outline presents information required by the San Francisco Bay Region, California Water Quality Control Board for case closure, and in general follows the format recommended in the Tri-Regional Board Staff Recommendations for Preliminary Investigations and Evaluation of Underground Tank Sites, August 10, 1990.

Background

The site is located at 440 Third Street at Grand Avenue in the City of San Rafael, California. The site is located in an area of commercial and light industrial development. in the central portion of San Rafael, and was formerly operated as ARCO Service Station No. 2135. In 1996, five underground storage tanks (USTs), four for gasoline and one for waste oil, an oil-water separator and two hydraulic lifts were removed from the site.

Site Release History

During repair of a buried product line in April 1988, a small quantity of separate phase hydrocarbons (SPH) was observed on shallow groundwater and in backfill material adjacent to the USTs. An unspecified quantity of SPH was removed and the product line repaired. 1

Mr. John Jang Page 2 09/20/2005

In October 1988, an Unauthorized Release Form (URF) was filed to report the release of an unknown quantity of leaded gasoline at the site. 2

In January 1993, upon discovery of SPH in a utility vault adjacent to the site, another URF was filed. According to the 1993 URF, emergency cleanup efforts employed at the time of discovery removed approximately 2500 gallons of product. 3

Initial Soil and Groundwater Investigations

Following the 1988 release, several phases of soil and groundwater investigation were performed. Between 1989 and 1991, 6 onsite and 3 offsite wells (Figure 1), one piezometer, and several soil borings were advanced to assess the extent of hydrocarbons at the site (Figure 2). Gasoline Range Organics (GRO) and benzene, toluene, ethylbenzene and xylenes (BTEX) were detected in the soil samples at concentrations up to 680 mg/kg and 32 mg/kg, respectively. SPH (free product) up to 1.28 feet thick was identified in the onsite monitoring wells, with significant GRO and BTEX detected in the offsite wells. 4

Initial Groundwater Monitoring

Initial groundwater monitoring data indicated free product up to 2.02 feet in thickness in onsite wells MW-1, MW-3, MW-4 and MW-6. Prior to its destruction following the March 1992 sample event, GRO and benzene in MW-2 were detected up to 5600 ug/L and 1600 ug/L, respectively. MW-5 had non-detectable (ND) to trace concentrations only. In nearby offsite wells MW-7 through MW-9, GRO and benzene were detected up to 26,000 ug/L and 7800 ug/L, respectively. 5

Interim Remediation

Based on these results, a groundwater extraction trench and treatment system was installed at the site in 1992. Following the January 1993 release and emergency cleanup, permitting for the system was completed and groundwater extraction and treatment was initiated. The system operated from February 1993 and until mid-1996. In addition to providing migration control of the plume, the system removed an estimated 681,200 gallons of impacted groundwater, which was treated onsite and discharged to the municipal sanitary sewer system under permit with the Central Marin Sanitation Agency. 5

Additional Soil and Groundwater Investigations

Subsequent soil and groundwater investigations were performed both on and off site in 1993 and 1995. In 1993, 25 soil borings and 6 offsite monitoring wells, MW-10 through MW-15, were advanced by Pacific Environmental Group (PEG) to further define the extent of impact on and near the site. The soil borings were located along underground

Mr. John Jang Page 3 09/20/2005

utility lines in the roadways for Third Street and Grand Avenue adjacent to the site (Figure 2) to evaluate whether the utilities were acting as preferential pathways for the migration of hydrocarbons at the site. Based on their results (Figure 3), PEG concluded the utilities were "not dramatically influencing the migration of SPH. SPH in groundwater is limited to the site and northwest of the site in Grand Avenue." Except for trace concentrations of benzene and toluene in groundwater from MW-13, hydrocarbons were not detected in soil or groundwater samples from the new wells. 6

In 1995, PEG performed additional investigation to complete delineation of the vertical and lateral extent of hydrocarbons in onsite soils. Soil samples were collected and analyzed from 33 onsite soil borings at depths of 3, 6, 9 and 12 ft bgs (Figure 4). Based on the results of their investigation (Figure 5), PEG concluded the extent of hydrocarbons had been defined to non-detectable levels for GRO and benzene. 7

Soils encountered at the site generally consist of surficial clays and silts to approximately 7 feet below ground surface (bgs), underlain by clayey sand and sand to approximately 17 to 19 ft bgs, followed by claystone and siltstone bedrock of the Franciscan Formation to the maximum depth explored (approximately 25.5 feet bgs). 7

Corrective Action

In March 1996, PEG prepared a Corrective Action Plan (CAP) for the site recommending soil over-excavation and de-watering, followed by installation of a biosparge system (Figures 6, 7 and 8). The CAP identified soil cleanup objectives of 100 ppm for TPHg and 5 ppm for benzene. Based on the results of the soil samples from the 1995 investigation, the CAP recommended removal of impacted soils from the site in two phases: first, from the western 2/3 of the site to 6 ft bgs, followed by the western half of the site to 12 ft bgs. 7

The CAP was implemented in summer of 1996. The USTs, hydraulic lifts and oil-water separator were removed and transported to Erickson, Inc. in Richmond for disposal. Approximately 4,878 cubic yards of impacted soil were then over-excavated to depths of 6 to 12 feet bgs, and transported to TPS Technologies in Richmond for incineration. Approximately 15,250 gallons of impacted groundwater were also pumped from the excavations and treated in the onsite treatment system for discharge under permit to the sanitary sewer. The biosparge system was installed but does not appear to have ever been operated at the site. 8

Onsite wells MW-1 through MW-6 were destroyed during over-excavation. Following completion of over-excavation and backfill, one new well, MW-16, was installed to monitor post-remedial groundwater conditions on the site (Figure 8). 8

Post-Remediation Groundwater Monitoring

Analyses of groundwater samples from the monitoring wells since 1996 (ie following both interim remedial groundwater extraction as well as corrective action over-excavation and de-watering) have shown no detection of SPH. Additionally, although the remaining hydrocarbon concentrations in the wells have fluctuated significantly, and have been somewhat erratic, generally appear to be declining over time.

The following is a brief summary of monitoring results in the on- and offsite wells since completion of corrective action activities for the site.

Onsite well – In MW-16, initial highs of GRO, benzene and MTBE from 1996 to 1998 ranged up to 5700 ug/L, 1000 ug/L and 2300 ug/L, respectively. From 1999 through July 2000, these constituents were generally lower, at concentrations up to 440 ug/L, 34 ug/L and 2200 ug/L, respectively. However, the last two quarterly events for which data is available have been erratic. GRO, benzene and MTBE in October 2000 were 1440 ug/L, 64.8 ug/L and 1890 ug/L, respectively, and in January 2001, concentrations were reported at <50 ug/L, <0.5 ug/L and 11.1 ug/L, respectively. Subsequent to that event, MW-16 was inadvertently destroyed during site redevelopment, therefore no further onsite data is available.

Offsite Wells - In the nearby down-gradient offsite wells, MW-7, MW-8 and MW-9, GRO, benzene and MTBE from 1996 through 2002 ranged up to ranged up to 19,000 ug/L, 3700 ug/L and 1600 ug/L, respectively. From 2003 through 2004, these constituents were generally lower, at concentrations up to 4800 ug/L, 1600 ug/L and 500 ug/L, respectively. These wells are located in city rights-of-way where over-excavation and de-watering were not practical. Residual concentrations of GRO, benzene and MTBE remain in these wells. In October 2004, the final round of sampling, concentrations of these constituents were detected up to 2700 ug/L, 550 ug/L and 390 ug/L, respectively.

In the distal offsite wells, MW-10 through MW-15, concentrations have generally been low to non-detect over the last four annual sampling events for those wells. During that period, concentrations of GRO, benzene and MTBE have ranged up to 270 ug/L, <0.50 ug/L and 88 ug/L, respectively. 9

ARCO Request for No Further Action

In a January 23, 2003 No Further Action (NFA) request, ARCO requested NFA status based on several factors, including the following:

Groundwater at the site is not a current or potential source of drinking water; the TDS, electrical conductivity and other criteria for shallow site groundwater do not meet drinking water standards; a considerable quantity of hydrocarbon mass has been removed; the groundwater plume has been defined; and BTEX concentrations in groundwater from the existing wells are low and declining. 10

The SRFD then requested a sensitive receptor survey (SRS) be performed.

Sensitive Receptor Survey

In 2004, URS performed an SRS to identify water wells within ½ mile of the site. The SRS identified 9 wells within ½ mile of the site (3 domestic wells, 5 irrigation wells, and one of unknown use), the nearest of which is 1500 feet upgradient from the site. The report states that none of the 9 wells are situated downgradient of the site. URS therefore concluded it unlikely that any of the nine wells could be impacted by the plume at the site. 11

Institutional Controls

Per agreement between the City of San Rafael and BP West Coast Products (successor in interest to ARCO), institutional controls have been implemented to address the residual hydrocarbons remaining in soil and groundwater in nearby offsite areas underlying the adjacent City rights-of-way. In the agreement, signed October 13, 2003, BP agreed to maintain responsibility for handling and disposal of impacted soil and/or groundwater generated as a result of improvement projects in the adjacent city rights-of-way. 12

Conclusions and Recommendations

Based upon information collected during the site investigation activities observed by the SRFD, it is the opinion of the Hazardous Materials Division that the site has been remediated to the extent practicable. <u>Due to the residual hydrocarbons on and near the site, the SRFD recommends a deed notification of the agreement between the City of San Rafael and BP West Coast Products (successor in interest to ARCO), be placed on the title to the property.</u>

Based on the facts and findings discussed in this report and substantiated by workplan proposals and summary reports, all work was performed in a manner consistent and in accordance with the Tri-Regional Guidelines and the LUFT Manual. The Division, therefore, recommends no further action and site closure.

Should you have any questions regarding the information contained in this report, please contact me at the Hazardous Materials Division at (415) 485-3308.

Sincerely,

BRADLEY R. MARK Deputy Fire Marshal, REA Hazardous Materials Program Manager

BRM:las

attachments: Case Closure Summary, Figures 1 through 8

cc: ARCO, Attn: Kyle Christie, 4 Centerpoint Dr, Suite 172 La Palma, CA

90623-1066

- 1 Pacific Environmental Group (PEG) Corrective Action Plan, Mar 1996, p.3 2 Unauthorized Release Form, Oct 1988 3 Unauthorized Release Form, Jan 14,1993 Hart Crowser Report of Supplemental Subsurface Assessment, Aug 1991 4 5 PEG CAP, Mar 1996 6 PEG Soil and Groundwater Investigation Report, Aug 1993 7 PEG CAP, Mar 1996 8 PEG Soil Excavation Program Summary, Nov 1996 9 URS Fourth Quarter 2004 Groundwater Monitoring Report, Nov 2004
- 10 ARCO No Further Action Request, Jan 2003
- 11 URS <u>Sensitive Receptor Survey Report</u>, Sept 2004
- 12 Agreement between BP and City of San Rafael, Oct 2003

Sincerely,

BŔADLĖY R. MARK

Deputy Fire Marshal, REA

Hazardous Materials Program Manager

BRM:las

attachments: Case Closure Summary, Figures 1 through 8

Mr. John Jang

Page 6 09/19/2005

CC:

ARCO, Attn: Kyle Christie, 4 Centerpoint Dr., Suite 172 La Palma, CA

90623-1066

- Pacific Environmental Group (PEG) Corrective Action Plan, Mar 1996, p.3 1
- 2 Unauthorized Release Form, Oct 1938
- 3 Unauthorized Release Form, Jan 14,1993
- Hart Crowser Report of Supplemental Subsurface Assessment, Aug 1991 4
- 5 PEG CAP, Mar 1996
- PEG Soil and Groundwater Investigation Report, Aug 1993 6
- 7 PEG CAP, Mar 1996
- 8 PEG Soil Excavation Program Summary, Nov 1996
- URS Fourth Quarter 2004 Groundwater Monitoring Report, Nov 2004 9
- 10 ARCO No Further Action Request, Jan 2003
- 11 URS Sensitive Receptor Survey Report, Sept 2004
- 12 Agreement between BP and City of San Rafael, Oct 2003

CASE CLOSURE SUMMARY

Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION	DATE: September 2005

Agency Name: San Rafael Fire Department	Address: 1039 C Street
City/St/Zip: San Rafael, CA 94901	Phone: (415) 485-3308
Responsible Staff Person: Bradley R. Mark	Title: Deputy Fire Marshal

II. CASE INFORMATION

Site facility nar	ne: Former Arco	· 0 #2135		
Site facility add	fress: 440 Third Str	eet, San Rafael		
RB LUSTIS Ca	ase No: 21-0011	Local Case No:	LOP Case No:	
URF filing date	e: Oct 1988 & Jan	14, 1993 SV	WEEPS No:	
Responsible Pa	urties:	Addresses:	Phone Numbers:	
ARCO, Attr	n: Mr. Kyle Christie,	4 Centerpoint Dr, Suite 172	La Palma, CA 90623-1066	
Tank No.	Size in Gal.	Contents	Closed in-Place/Removed?	Date
1, 2, 3, 4	6000 gal. ea.	Gasoline	Removed	1996
5	550 gal.	Waste oil	Removed	1996
Other		Oil-Water Separator and 2 Hydraulic Lifts	Removed	1996

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Site characterization complete?	YES NO Da	te approved by oversight agency:		
Monitoring wells installed?	YES NO	Number: 16 Proper scre	ened interval? Y	ES NO
Highest GW depth below ground	nd surface? 0.66'	Lowest Depth? 7.83'	Flow direction:	West/Southwest
Most Sensitive Current Use:	Commercial/L	ght Industrial		
Are drinking water wells affect	ed? YES <u>NO</u>	Aquifer Name:		
Is Surface water affected?	YES <u>NO</u>	Nearest/affected SW name:		
Off-site beneficial use impacts	(addresses/locations):	None	·	
Report(s) on file?	YES NO	Where is report filed? SRFI)	

Treatment and Disposal of Affected Material

Material	Amount (Include units)	Action (treatment of Disposal w/ Dest.)	Date
Tanks	5 USTs, 2 lifts & o/w separator	Removed	1996
Piping	Undetermined	Removed .	1996
Free Product	Undetermined	Removed during product line repair (1988 URF)	1988
	2500 gal.	Removed from utility box (1993 URF)	1993
	2784 gal.	Removed from wells	through 1996
	34.9 gal. TPHg; 2.9 g. Benzene	Mass recovered during GW extraction	1993-1996
Soil	4787 tons	Excavated; Incinerated	1996
Groundwater	681,200 gal.	Extracted, treated, discharged to sanitary sewer	1993-1996
Barrels			

CASE CLOSURE SUMMARY Leaking Underground Fuel Storage Tank Program

III. Release and Site Characterization Information (continued)

Contaminant	Soil (ppm)		Water (ppm)		Contaminant	Soil (ppm)		Water (ppm)	
	Before	After	Before	After		Before	After	Before	After
TPH (Gas)	8,200	3,300	320	2.7	Xylene	16,000	310	34	0.042
TPH (Diesel)	5,200	NA	NA	NA	Ethylbenzene	4,300	30	6.3	0.096
Benzene	5,200	7.1	22	0.550	Oil & Grease	12,000	55	NA	NA
Toluene	5,300	77	38	0.0074	Metals (Pb)	420	NA	NA	NA
PCBs	0.049	NA			МТВЕ/РСЕ	NA/0.310	NA	48	0.390

Comments (Depth of Remediation, etc.):

"Before" data for soil based on samples collected beneath the USTs at the time of their removal in 1996. Subsequent corrective action over-excavation extended to depths of 6 to 12 ft bgs. "After" data for soil based on sample TP-B at 13'.

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per Regional Boa	ard Basin Plan? YES NO
Does completed corrective action protect potential beneficial uses per Regional Bo	oard Basin Plan? YES NO
Does corrective action protect health for current land use?	YES NO
Site management requirements: Deed Notification/Restriction & City of San Rafe	ael/BP Agreement*
Should corrective action be reviewed if land use changes?	YES NO
Monitoring wells decommissioned: YES NO Number Decommissioned:	Number Retained:
List enforcement actions taken:	
List enforcement actions rescinded:	
	12.

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Name: Bradley R. Mark	Title: Deputy Fire Marshal
Signature: Figure Hall	Date: 9-14-05
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VI. RWOCB NOTIFICATION

Date submitted to RB: 9/21/05

RB Response: Concurs with closure recommendation

RWQCB Staff Name: John Jang

Title: UST Program Manager

Date: 1/2/06

VII. ADDITIONAL COMMENTS DATA, ETC.

*Agreement between the City of San Rafael and BP West Coast Products (successor in interest to ARCO) stating that BP is responsible for contaminated soil and/or groundwater encountered in the Contamination Migration Area, costs for treatment and/or disposal of such materials excavated as a result of public works projects on City property adjacent to the site (ie Third Street and Grand Avenue), and related emergency response costs incurred by the City as a result of the release from ARCO #2135.

[&]quot;After" data for water based on URS 4th Qtr 2004 Monitoring Report, 11/24/04.

^{**}Additional comments below.

TECHNICAL REPORTS, CORRESPONDENCE, ETC. THAT THIS CLOSURE RECOMMENDATION WAS BASED UPON:

Title:	SRFD Letter to SFBRWQCB re: Intent to Issue NFA	Date: 3/28/05
	URS 4 th Qtr 2004 Monitoring Report	11/24/04
	URS SRS Report	9/30/04
 -	SRFD Letter to SFBRWQCB re: Request for Closure	10/23/03
	ARCO Response Letter to SRFD Letter of 4/16/03	5/12/03
	ARCO Request for NFA	1/12/03
-	Pacific Env. Group (PEG) Soil Excavation Program Summary Documentation	11/26/96
	PEG CAP	3/29/96

ARCO Report dated 12/5/es (response to RWQLB

12/5/05

ADDITIONAL COMMENTS, DATA, ETC.

Please include/attach the following as appropriate:

1) Site Map indicating tank pit location, monitoring well location, groundwater gradient, etc. and

2) Site comments worthy of notice (e.g. area of residual pollution left in place, deed notices, etc.)

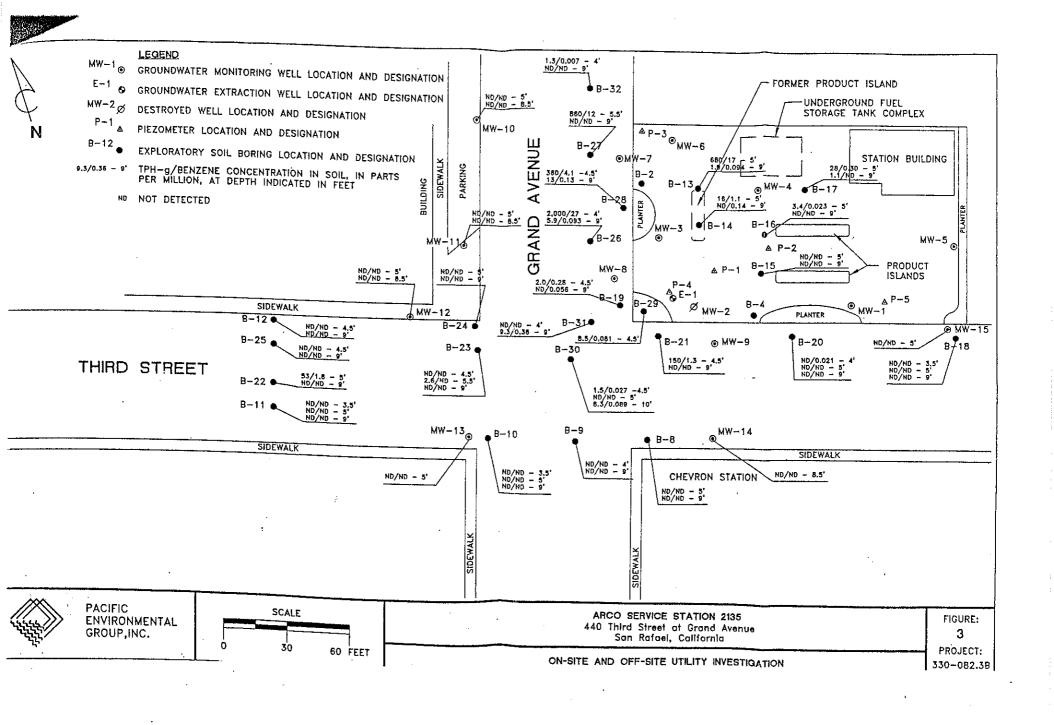
Figures 1 through 8, selected from the PEG March 1996 CAP, are attached to the 2005 SRFD Case Closure Referral report.

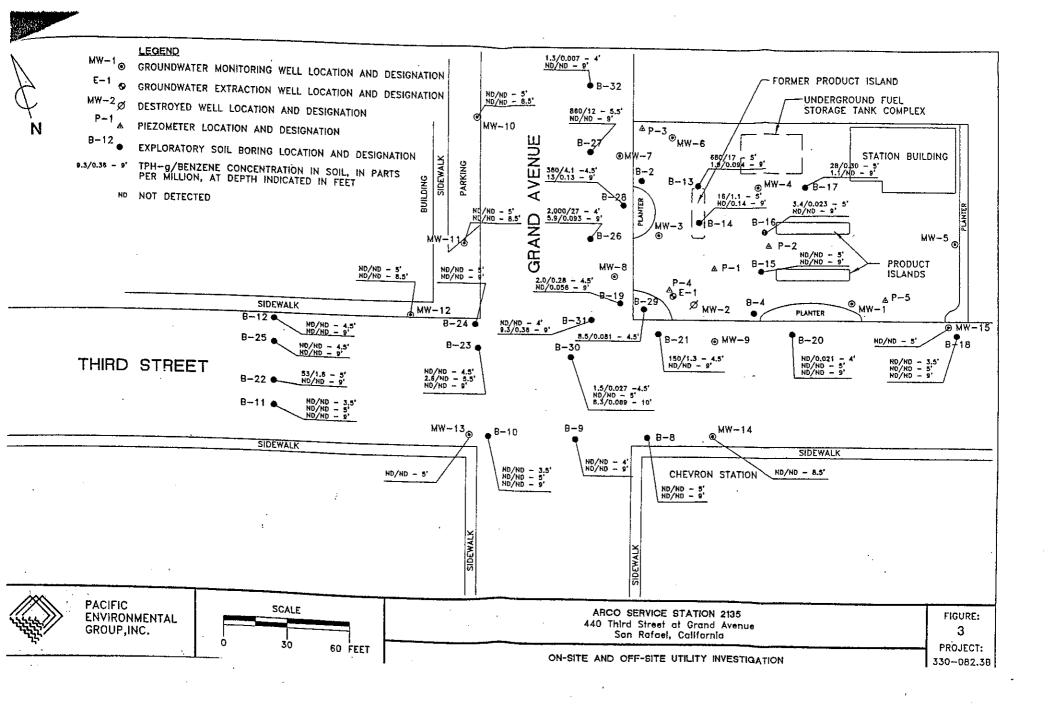
Analytical results of soil and groundwater samples, data documenting SPH removal, groundwater extraction system performance, etc. collected prior to the 1996 corrective action activities are summarized in Tables 1 through 10 of the CAP.

Groundwater gradient data and analytical results of groundwater samples from the monitoring wells post-dating corrective action are summarized in Tables 1 through 3 of the URS Fourth Quarter Monitoring Report, dated November 2004.

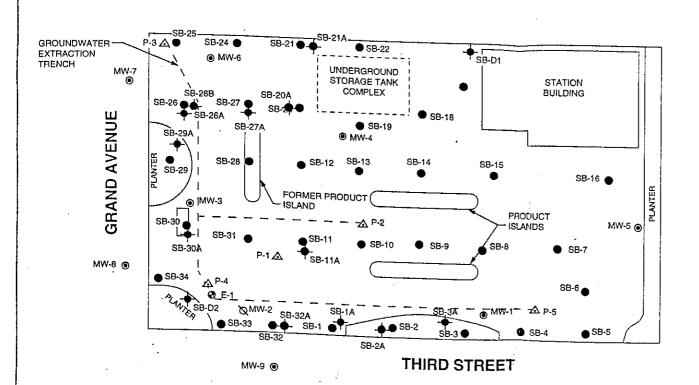
As a condition of closure, the SRFD recommends a deed notification/restriction be attached to the title of the property.

Site is an existing a convent operating gas station. If land use changes from being an operating gasoline service station, closure needs < 1/2/06)











MW-1

GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION

GROUNDWATER EXTRACTION WELL LOCATION AND DESIGNATION

MW-2 Ø DESTROYED GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION

P-1 & PIEZOMETER LOCATION AND DESIGNATION

SB-1 SOIL BORING LOCATION AND DESIGNATION, 8-18 to 8-20-95

SB-2A - SOIL BORING LOCATION AND DESIGNATION, 6-23-95 and 8-1-95)

PACIFIC ENVIRONMENTAL GROUP, INC.

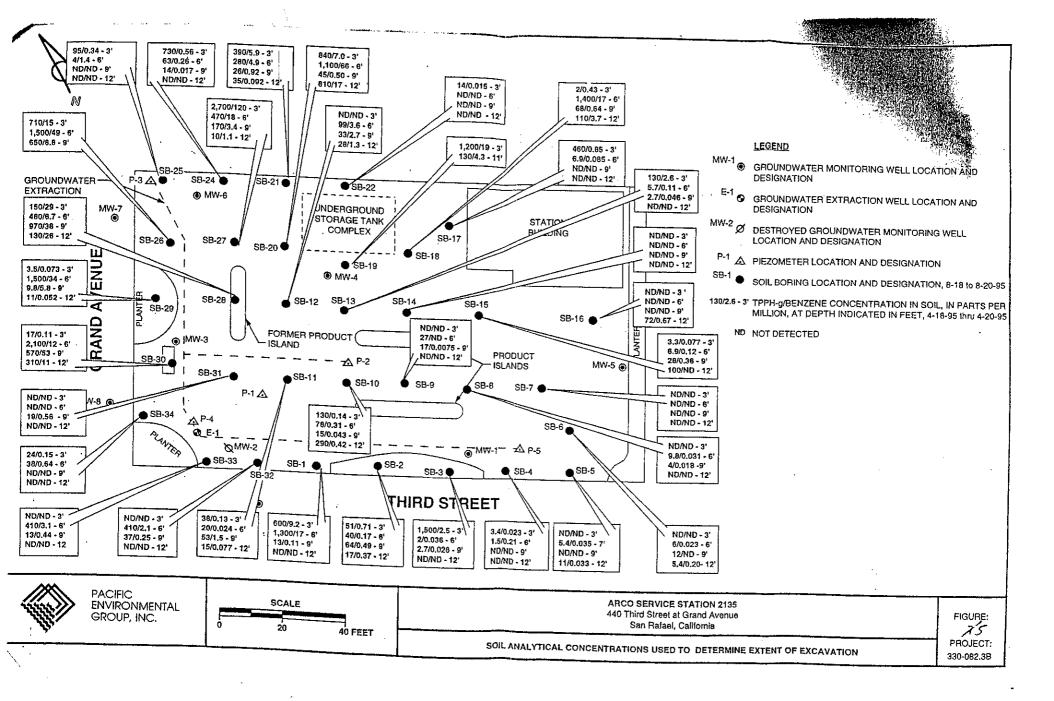
SCALE
20 40 FEET

ARCO SERVICE STATION 2135 440 Third Street at Grand Avenue San Rafael, California

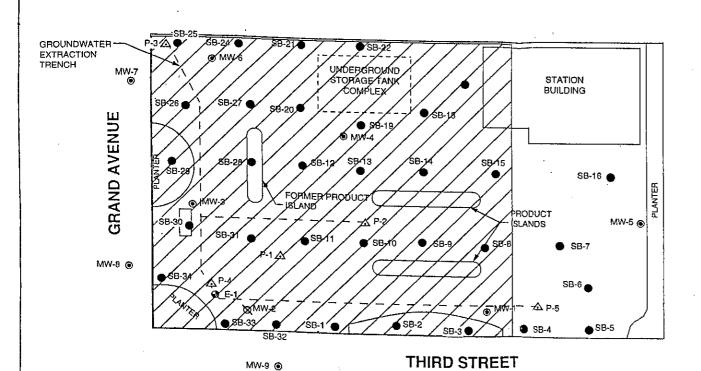
ON-SITE SOIL BORING LOCATION MAP

FIGURE:

PROJECT: 330-082.3B







LEGEND

MW-1
GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION

GROUNDWATER EXTRACTION WELL LOCATION AND DESIGNATION

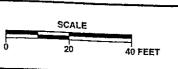
MW-2 Ø DESTROYED GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION

P-1 A PIEZOMETER LOCATION AND DESIGNATION

SB-1 SOIL BORING LOCATION AND DESIGNATION, 8-18 to 8-20-95

EXTENT OF SOIL EXCAVATION FROM 0-6' BELOW GROUND SURFACE

PACIFIC ENVIRONMENTAL GROUP, INC.

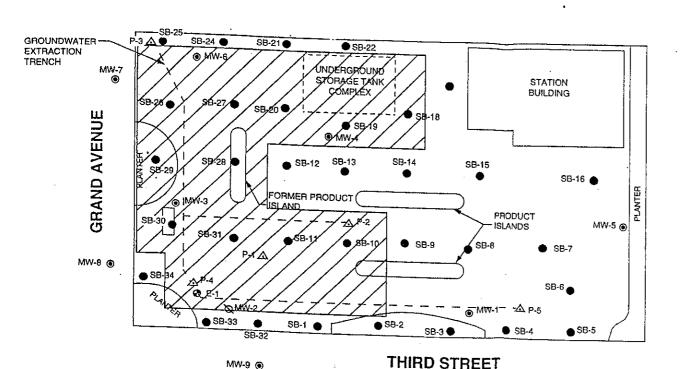


ARCO SERVICE STATION 2135 440 Third Street at Grand Avenue San Rafael, California

PROPOSED PHASE I SOIL EXCAVATION MAP

FIGURE: 8 6 PROJECT: 330-082.3B





LEGEND

MW-1

● GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION .

6-1. GROUNDWATER EXTRACTION WELL LOCATION AND DESIGNATION

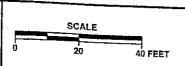
MW-2 Ø DESTROYED GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION

P-1 A PIEZOMETER LOCATION AND DESIGNATION

SB-1 SOIL BORING LOCATION AND DESIGNATION, 8-18 to 8-20-95

EXTENT OF SOIL EXCAVATION FROM 6-12 FEET BELOW GROUND SURFACE



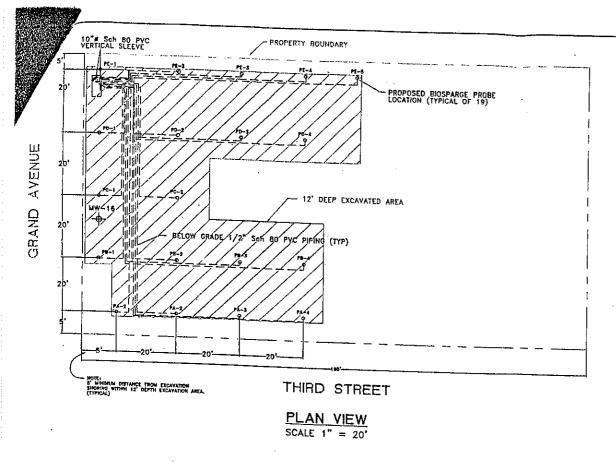


ARCO SERVICE STATION 2135 440 Third Street at Grand Avenue San Rafael, California

PROPOSED PHASE II SOIL EXCAVATION MAP

FIGURE: 8 7 PROJECT: 330-082.9B

330-082.3





PACIFIC ENVIRONMENTAL GROUP, INC. PROPOSED LOCATION OF WELL MW-16

PREPARED FOR:

ARCO SERVICE STATION 2135 440 Third Street at Grand Avenue San Rafael, California

8 JRE: 18

DATE: 2-22-96

PROJECT: 330-082.38

FIGURE: 10

ATTACHMENT B APPLICABLE PERMITS

Well Destruction Report Former ARCO Service Station No. 2135 440 3rd Street San Rafael, CA

SECOR Project No.: 77BP.02135.06.0636



COUNTY OF MARIN ENVIRONMENTAL HEALTH SERVICES

Community Development Agency

RECEIVED

MAR 0 5 2008

3501 Civic Center Drive, Rm 236 San Rafael, CA 94903 (415) 499-6907 FAX (415) 507-4120 www.co.marin.ca.us/ehs

WELL DESTRUCTION PERMIT

KAREN BEYER

Date of Issuance: March 1, 2006 Date of Expiration: March 1, 2007

To: Atlantic Richfield Company c/o Charles Carmel

PO Box 977 Alamo, CA 94507 Permit No: WD 05/06 - 6 (9)

Street Address: 440 3rd Street

City: San Rafael

Assessor's Parcel Number: 014-093-09

Driller: Gregg Drilling and Testing, 950 Howe Road, Martinez, CA 94553

This well shall be destroyed according to the requirements of the State of California Well Standards Bulletin 74-81, Chapter II, Part III, Section 23. Additionally, for monitoring wells and exploratory borings see Bulletin 74-90, Part III, Pages 50-54. The objective of well destruction is to restore as nearly as possible those subsurface conditions that existed before the well was constructed.

CONDITIONS:

- 1. Minimally, the upper 20 feet of the well shall be filled with an impervious sealing material such as neat cement.
- Pressure grouting is approved. The consultant, Andrew Fowler, explained that cement grout will be
 placed in the well with a tremie to displace any water, a pressure fitting will be installed and the grout will
 be pumped at a pressure of at least 25 psi.

The well driller shall notify this office at least **two working days** in advance of destroying the well. The impervious seal shall not be placed until approval from Environmental Health Services is granted. The well driller shall submit a Department of Water Resources Form 188 (Water Well Drillers Report) within 30 days of project completion.

Scott Callow, Senior R.E.H.S.

C: URS Corporation, 1333 Broadway, Suite 800, Oakland, CA 94612

OFFICE USE ONLY

1.	<u>Method</u>	discusse	ed 3/1	(SC

2.			
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BEFORE YOU DIG CALL [USA] @ 888-642-2444

SAN RAFAEL PUBLIC WORKS

PUBLIC WORKS DEPARTMENT ● (415) 485-3355
111 MORPHEW ST. ● P.O. BOX 151560 ● SAN RAFAEL, CA. 94915

DISTRIBUTION: *White - File *Yellow - Applicant *Pink - Inspector

ENCROACHMENT PERMIT

T / CO / CONT	INFORMATION / T/
· · · · · · · · · · · · · · · · · · ·	nd Ave and Third st.
	TE SUBMITTED: 3/3/06
NAME: Atlantic Pyh field Company	TYPE OF PERMIT REQUESTED FRONTAGE IMPROVEMENTS STREET CUT FOR UNDERGROUND CONSTRUCTION
ADDRESS: 90 Charles Carmel F.O. Box 977	DIRECTOR AND DESCRIPTION OF
CITY/ST: Alamo, (A 94507 PHONE: 925 946 1085	7 L.F. CURB & GUTTER EA. DRIVEWAY L.F. TRENCH
AM PM	
NAME: LIRS (or paration) ADDRESS: 1333 Broadway, Suite 800 CITY/ST: Oakland, (A 946/Z PHONE: 5/0 893 3600 CITY LIC. # OK Sales I STATE LIC. # (A or C-12 Only) REQUESTED STARTING DATE: 3/16/06 ANTICIPATED COMPLETION DATE: 3/20/06 I hereby acknowledge that I have read this application and start Ordinances and State Laws. I further agree to save, indemnify duly appointed representatives against all liabilities and judger moval and / or relocation, I further agree to perform such work at the Department of Public Works to so.	te that the above is correct and agree to comply with all City y, and keep harmless the City of San Rafael, its officers, and lents from this permit. If said improvements ever require re-
(Owner / Contractor)	THE TEN OFF
REQUIRED YES NO RECTO ENGINEERED PLAN INSURANCE	FEES: STREET CUT \$37.50 L.S. = \$
BONDING CITY COUNCIL APPROVAL OTHER NOTE: All standard conditions, special conditions, plans	OTHER 37.50 T.S. = 33.2.22 FRONT. IMPVT'S. 4.50 L.S. =
NOTE: All standard conditions, special conditions, plans and reports as referenced or attached hereto become and are a part of this permit.	FRONT. IMPVT'S. 4.50 L.S LF-C&G @ 0.15/LF SF-SW @ 0.05/SF = EA - DW @ 20/EA
NOTE: All standard conditions, special conditions, plans and reports as referenced or attached hereto become and are a part of this permit. EXPIRATION DATE: 19	FRONT. IMPVT'S. 4.50 L.S. — LF-C&G @ 0.15/LF — SF-SW @ 0.05/SF = EA - DW @ 20/EA — (001-2207) TOTAL \$ 332,22
NOTE: All standard conditions, special conditions, plans and reports as referenced or attached hereto become and are a part of this permit. EXPIRATION DATE: 19	FRONT. IMPVT'S. 4.50 L.S. — LF-C&G @ 0.15/LF — SF- SW @ 0.05/SF = EA - DW @ 20/EA — (001-2207) TOTAL \$ 332,22 PERMIT APPROVED FOR ISSUANCE:
NOTE: All standard conditions, special conditions, plans and reports as referenced or attached hereto become and are a part of this permit. EXPIRATION DATE: 19 EXTENSION DATE: 19 AUTHORIZED BY:	FRONT. IMPVT'S. 4.50 L.S. — LF-C&G @ 0.15/LF — SF-SW @ 0.05/SF — EA - DW @ 20/EA — (001-2207) TOTAL \$ 332,22

ATTACHMENT C FIELD NOTES

Well Destruction Report Former ARCO Service Station No. 2135 440 3rd Street San Rafael, CA

SECOR Project No.: 77BP.02135.06.0636

U	RS Field Visit Form URS Corporation, Oakland Office 1333 Broadway, Suite 800 Oakland, Ca 94612
Arrival I	Date/ Time: 3/14/06 Project Number:
Locatio	
Employ	+
	er Conditions:
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	Pagel
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625	area onsite - 49 meeting
	All seci onsite
6/40	Regin grant MW-12 There
	Board Sament 3/23 Square MW-10
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7:10	finish group Muil 2000 25 PSC for 5 ming (Photo)
2,70	Begin grow Mw-M, sawent N.W-15 (phote)
2:10	Anosh Mw-21 25 psi for 5 monutes (photo)
715	Begin grout MW-10 (Anoto)
3:00	Emish mura 25 03 for 5 muses shote. Al Seco leaves site
812	Begin growt MW-15 (photo)
an Y	Fines grows MW-K. 25 psi for 5 mounts (photo)
8:160	Jackhemmer MW-15 of cold party Bob Scanhourvery (city inspector)
70.00	onste. Notrhichion for Tues. 3/21 morning byt as phalt given
845	Bit scantoury haves.
410	Frugh cold patch MM -15
450	Sexue FAW-9 11
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9/34	
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10/8	
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Employ					- 46100
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					2135 Page Z
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Departure Time:

URS

Field Visit Form

URS Corporation, Oakland Office 1333 Broadway, Suite 800 Oakland, Ca 94612

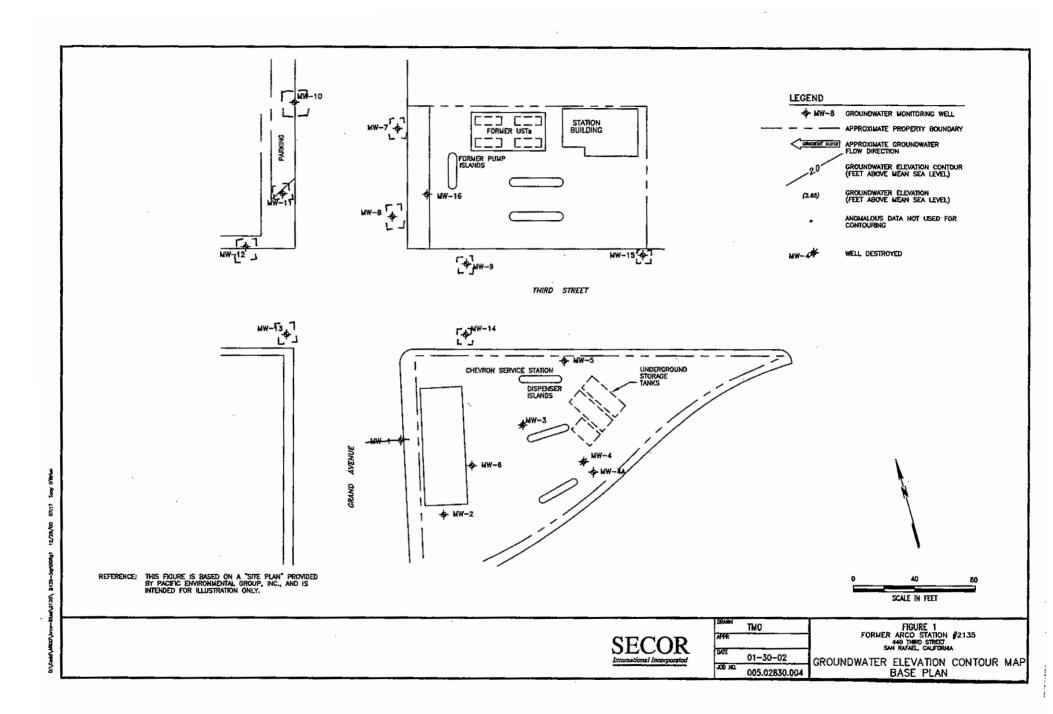
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7:15	begin growt mw-7 (photo) (4"), 25 PSI for 5 mgs (plotos) in
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Departure Time:

ATTACHMENT D WELL COMPLETION REPORTS

Well Destruction Report Former ARCO Service Station No. 2135 440 3rd Street San Rafael, CA

SECOR Project No.: 77BP.02135.06.0636



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*The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form. File Original with DWR State of California DWR USE ONIV - DO NOT FILL IN **Well Completion Report** of <u>1</u> Page 1 Refer to Instruction Pamphlet No.)6037556 State Wall Number/Site Number Owner's Well Number MW-8 N Date Work Ended 3/17/2006 Date Work Began 03/17/2006 Latitude Longitude Local Permit Agency Marin County Permit Number WD 05/06 (9) Permit Date 3/1/06 Geologic Log Well Owner O Horizontal **O**Angle Specify Name BP - Atlantic Richfield Company c/o Charles Carmel Drilling Method Drilling Fluid NΑ Mailing Address P.O.Box 977 Depth from Sufface Description City Alamo State CA 19 Well Cocation ٥ Grouted with neat cement and applied 25 PSI pressure for 5 minutes. Address 440 Third Street City San Rafael County Marin Latitude N Longitude ... Datum Decimal Lat Decimal Long. Parcel <u>09</u> Page <u>093</u> APN Book 014 Township O New Well
O Modification/Repair
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Other Attach additional inform		its.	—∥	C-57 Licensed Waler Well Contractor Date Signed C-57 License Number							se Number	—			
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